

**61G17-6.004 Vertical Control and Topographic Surveys.**

(1) Vertical Control: Surveys: All elevations shown upon surveys shall be based on a level loop; closure in feet must be accurate to a standard of plus or minus .05 times the square root of the distance in miles.

(2) Topographic Surveys:

(a) The horizontal position of physical features must be plotted to 1/20th of the map scale. If contour lines are shown, then sufficient spot elevation must be obtained in order to insure that all such lines are within ½ of the contour interval 80 % of the time. A surveyor shall run test profiles and check horizontal distance when he certifies the correctness of the information shown on a topography survey obtained by aerial photography. When a test profile is run over the mapped area in the field, the profile must be correct within one-half of the contour interval 80 % of the time, and the remainder shall not be in error more than the contour interval.

(b) All topographic surveys shall show elevations based on a closed level loop, from an established benchmark. This closed level loop, where practicable, should run through or to a second established benchmark to confirm the level run and the first benchmark. All topographic surveys shall indicate the datum and a description of the benchmark(s) upon which the survey is based. A minimum of one site benchmark on or near the survey shall be established and indicated upon the drawing. Minor topographic data may be obtained on an assumed datum provided the base elevation of the datum is obviously different than the established datum.

(c) All topographic surveys shall have a designated "north arrow", scale and/or bar or graphic scale of a map permanently shown on the drawing. All topographic surveys shall be certified as meeting the applicable requirements.

(3) Minor elevations shown on boundary surveys, such as floor elevations for flood certificates, does not result in the survey being classified as topographic; however, the datum shall be stated and the elevations shall be based on a closed level loop run.

*Specific Authority 472.027 FS. Law Implemented 472.027 FS. History—New 9-1-81, Formerly 21HH-6.04, Amended 12-18-88, Formerly 21HH-6.004.*